

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1-18. (Cancelled)

19. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 52 ~~46~~ further comprising a sensor in communication with said compressor, said sensor providing a signal to said control block indicative of an operating characteristic of said compressor, and said control block being operable to transmit said signal to said system master receiving said signal from said control block.

20. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 52 ~~46~~ further comprising a plurality of sensors in communication with said compressor, each of said plurality of sensors providing a signal to said control block indicative of an operating characteristic of said compressor.

21. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 20 wherein said control block creates an event history from said signals of said sensors.

22. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 21 wherein said control block is operable to transmit said event history ~~is provided to said system master from said control block.~~

23 - 25. (Cancelled)

26. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 52 46 wherein said control block includes a microprocessor.

27. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 26 wherein said microprocessor functions as a gateway for communicating with said system master.

28. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 26 wherein said microprocessor controls communication between said control block and said system master.

29. (Cancelled)

30. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 52 46 wherein said control block is operable for selective control by said system master ~~selectively controls said control block.~~

31. (Cancelled)

32. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 52 46 wherein said compressor system master is operable to initially configured said compressor by said control block receiving ~~sending~~ said new image of said compressor data from said system master configuration information ~~to said control block~~.

33. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 52 46, further comprising ~~the~~ a plurality of sensors integrated internally into said a shell of said compressor and in communication with said control block.

34. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 52 46 wherein said control block includes a vibration sensor.

35 - 47. (Cancelled)

48. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 52 47 wherein said control block includes a microprocessor that controls communication of said image between said control block and said system master.

49. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 47 52 further comprising a shell, wherein said compression mechanism is disposed in said shell and said control block is mounted on said shell.

50. (Currently Amended) The apparatus ~~compressor assembly~~ of Claim 53
47 wherein said operating parameter includes vibration.

51. (Cancelled)

52. (New) An apparatus comprising:

a compressor including a compression mechanism and a motor driving said compression mechanism;

a memory associated with said compressor and storing an image of compressor data including compressor identification data and compressor configuration data;

a control block associated with said compressor and operable to transmit a copy of said image to a system master, to receive from said system master at least one of a modified copy of said transmitted image and a new image of compressor data including compressor identification data and compressor configuration data, and to store at least one of said modified copy of said transmitted image and said new image in said memory.

53. (New) The apparatus of claim 52 further comprising a plurality of sensors monitoring an operating parameter of at least one of said motor and said compression mechanism.

54. (New) The apparatus of claim 52 wherein said compressor identification data includes at least one of compressor model data and compressor serial number data.

55. (New) The apparatus of claim 52 wherein said compressor configuration data includes compressor application data.

56. (New) The apparatus of claim 55 wherein said compressor application data includes at least one of application type data, application temperature range data, refrigerant code data, oil code data, and oil charge data.

57. (New) The apparatus of claim 52 wherein said compressor configuration data includes compressor control data.

58. (New) The apparatus of claim 57 wherein said compressor control data includes anti-short cycle time data.

59. (New) The apparatus of claim 57 wherein said compressor control data includes at least one of discharge pressure cut-in data, discharge pressure cut-out data, discharge pressure sensor option data, discharge trip time data, discharge multiplier data, discharge divider data, and discharge temperature cut-out data.

60. (New) The apparatus of claim 57 wherein said compressor control data includes at least one of oil add set point data, oil stop add set point data, oil trip set point data, oil on time data, oil off time data, and oil add period data.

61. (New) The apparatus of claim 57 wherein said compressor control data includes at least one of shake limit data and shake count data.

62. (New) The apparatus of claim 57 wherein said compressor control data includes at least one of suction pressure low limit data, suction pressure high limit data, suction multiplier data, suction divider data, and suction pressure sensor option data.

63. (New) The apparatus of claim 52 wherein said image of compressor data includes customer information data.

64. (New) The apparatus of claim 63 wherein said customer information data includes at least one of customer name data and customer model number data.

65. (New) The apparatus of claim 21 wherein said image of compressor data includes said event history.

66. (New) The apparatus of claim 65 wherein said event history includes at least one of compressor cycles data, compressor on-time data, discharge pressure trips

data, discharge temperature data, motor trips data, oil trips data, suction pressure limit trips data, shake limit trips data, and events since cleared data.

67. (New) The apparatus of claim 21 wherein said image of compressor data includes said event history and customer information data and wherein said compressor configuration data includes compressor application data and compressor control data.